

- ❖ 英国《科学文摘》(INSPEC)来源期刊
- ❖ 俄罗斯《文摘杂志》(AJ)来源期刊
- ❖ 美国《乌利希期刊指南(网络版)》(Ulrichsweb)收录期刊
- ❖ 2017—2019年中国国际影响力优秀学术期刊(自然科学与工程)
- ❖ 第二届国家期刊奖百种重点科技期刊
- ❖ 中国科技核心期刊
- ❖ 全国中文核心期刊
- ❖ 中国科技论文统计源期刊
- ❖ 中国学术期刊综合评价数据库来源期刊
- ❖ RCCSE核心学术期刊
- ❖ 中国期刊方阵双效期刊
- ❖ 《日本科学技术振兴机构数据库》(JST)来源期刊
- ❖ 美国《艾博思科学学术数据库》(EBSCO)全文来源期刊
- ❖ 美国《剑桥科学文摘(自然科学)》(CSA(NS))核心期刊
- ❖ 波兰《哥白尼索引》(IC)来源期刊
- ❖ 中国科学引文数据库(CSCD)来源期刊
- ❖ 《中文科技期刊数据库》来源期刊
- ❖ 《中国期刊网》《中国学术期刊(光盘版)》来源期刊
- ❖ 中国精品科技期刊顶尖学术论文(F5000)项目来源期刊
- ❖ 《电子科技文献数据库》来源期刊
- ❖ 《中国工程技术电子信息网》来源期刊

计算机应用研究

Jisuanji Yingyong Yanjiu

第 43 卷 第 8 期 2026 年 8 月

目 次

综述评论

- AI agent 技术进展与展望..... 李卫斌,姚佳瑞,侯 彪(2241)
- 数据中心 HVAC 智能控制的研究现状与挑战 王浩楠,万剑雄,李 进,刘楚仪,李雷孝(2250)

情感识别专题

- 基于内外知识融合驱动的情感-原因对提取 李 敏,田 源,徐 春,张 冉,孙瑞娜,张雨恒(2261)
- ALU-TransSHAP:基于主动学习的无偏 TransSHAP 可解释模型 刘 彤,杨雅萱,倪维健(2270)
- 基于双通路融合网络的用户视频情感识别 刘玉杰,董振阳(2278)

算法研究探讨

- 基于内容自适应小波特征与判别式层次原型对齐的跨被试脑电解码网络 胡欣欣,曹 秒,李晓琳,彭 博,周志勇,戴亚康(2286)
- 生鲜产品零滞留与需求拆分下的生产配送优化算法 曹搏悦,储诚斌(2293)
- 融合课程学习与自适应奖励塑形的移动机器人导航方法 林玉杰,吴伟林,付占悦,蔡君颖,石少雄(2301)
- 考虑多运载约束的卡车-异构无人机多访问协同路径优化方法 郭胜会,赵建付,梁学栋,张国辉,徐世琦(2308)
- 融合量子启发与多层邻域的改进 APO 路径规划算法 王继超,回振桥,张瀚予,刘昕彤(2316)
- 基于超图和奇异值分解对比学习的推荐系统 王 慧,刘俊琰,游俊杰,黄润杰(2325)
- 基于多维度协同交互信号的动态图嵌入学习推荐模型 孙 谦,解 庆,王玉菡,汤梦姿,刘永坚(2333)
- 基于多特征融合强化的地震震源定位深度算子网络 庞善臣,王晨宇(2340)
- 基于语义增强的对抗强化知识图谱多跳路径推理 翟社平,刘 雪,黄 朝,杨 锐(2348)
- SDFC:基于拓扑结构的层次图摘要模型 赵丹枫,沈 栋,马 健,王 建,贺 琪(2356)
- 基于图对比学习的社交推荐图去噪与增强模型 宋秀杰,马 涛,陈巧玉,白 雪(2364)
- 基于社交感知驱动深度时空解耦的轨迹-到达时间联合预测 何杏宇,胡洛铭,杨桂松(2371)

威胁环境下鱼群运动的深度适应性推理模型	刘 磊,马 婧(2381)
基于结构化概念与时序学习模式的学生知识演变追踪	秦振凯,覃玮琪,韦堡钟,马艳逢,潘卫华,张 迁(2390)
基于多阶段课程式学习的低资源藏汉语音翻译方法	胥桂仙,袁崇瑞,粟泽力,王向华,韩 旭,董玉双,张 廷(2398)
Nesterov 动量引导的差分进化算法	郭一帆,刘 升(2406)
基于矩阵分解与双邻点球面插值的数据扩增方法	温柳英,张 耀,闵 帆(2414)
分层混合迁移策略的多目标多任务进化算法	李二超,郭 启,彭 钰(2422)
面向空间转录组数据的动态融合注意力空间域识别	刘文欣,徐一帆,高 华,朱 发,业 宁(2432)

系统应用开发

基于 PID 控制与 JS 散度的 VPA-HPA 协同动态资源调度	荀亚玲,张哲琪,苏美红(2442)
基于非线性规则生成卷积核的 CNN 强鲁棒微调方法	樊琳琳,张俊娜(2449)

软件技术研究

结构优先的跨语言代码克隆检测方法	熊俊华,魏 乐(2457)
基于 Transformer 的融合属性分组注意力 CPU 高速缓存性能预测模型	程顺欣,唐小勇(2465)

网络与通信技术

无人机仿鸟群行为的预测重构方法	陈启洋,何 明,韩 伟,李思可,刘 祥(2472)
基于边信息学习的机会网络链路预测算法	赵凯亮,张 峰,许 岗,罗琛豪(2481)
面向 TSN 的多策略流量调度算法	杜 娟,王 澄,时文雅,郇 战(2488)
面向图像语义通信的多尺度混合特征变换编码方法	王明军,杨沁衡(2494)

信息安全技术

基于语义一致性和图像伪造的多模态虚假信息检测	桂海龙,刘 丹(2500)
针对扩散模型生成图像的高视觉质量鲁棒水印方案	何 涛,周 非,周 奕(2507)
基于多尺度时空特征融合的网络入侵检测方法	徐 力,苏 娜,裴厚清,王经钧,纪淑娟(2515)

图形图像技术

语义引导与互信息约束的遮挡行人重识别方法	邓晓晖,林国荣,黄震华(2522)
TrajMamba:融入动态视觉感知的 Mamba 轨迹预测模型	张雨丹,周庆辉,孙舜杰(2530)
基于 3D 高斯的自动驾驶实景重建方法	曹春萍,刘平生(2537)
基于弱监督和空-谱双向调制 Transformer 的无参考高光谱图像质量评价	胡柄东,王同罕,贾惠珍(2544)
面向高分辨率肝脏 CT 的轻量化 W 型双分支融合分割网络	顾 群,彭海超(2551)

信息集萃

下期要目	(2529)
------------	--------

期刊基本参数:CN51-1196/TP * 1984 * m * A4 * 320 * zh * P * ￥60.00 * 3840 * 40 * 2026-08 * n

Application Research of Computers

Vol. 43 No. 8 Aug. 2026

Contents

Survey

Progress and prospects of AI agent technology	Li Weibin, Yao Jiarui, Hou Biao (2241)
Research status and challenges of intelligent HVAC control in data centers	Wang Haonan, Wan Jianxiong, Li Jin, <i>et al.</i> (2250)

Special Topics in Emotion Recognition

Internal-external knowledge fusion driven approach for emotion-cause pair extraction	Li Min, Tian Yuan, Xu Chun, <i>et al.</i> (2261)
ALU-TransSHAP; unbiased TransSHAP explainable model based on active learning	Liu Tong, Yang Yaxuan, Ni Weijian (2270)
Emotion recognition in user-generated video based on dual-path fusion network	Liu Yujie, Dong Zhenyang (2278)

Algorithm Research & Explore

Content-adaptive wavelet features and discriminative hierarchical prototype alignment for cross-subject EEG decoding	 Hu Xinxin, Cao Miao, Li Xiaolin, <i>et al.</i> (2286)
Research on optimization of production and transportation scheduling considering job splitting in no on-site storage	Cao Boyue, Chu Chengbin (2293)
Mobile robot navigation method based on integrated course learning and adaptive reward shaping	Lin Yujie, Wu Weilin, Fu Zhanyue, <i>et al.</i> (2301)
Optimization method for multi-visit collaborative path planning of truck-heterogeneous drones considering multiple transportation constraints	 Guo Shenghui, Zhao Jianfu, Liang Xuedong, <i>et al.</i> (2308)
Improved APO path planning algorithm fusing quantum inspiration and multi-level neighborhood	 Wang Jichao, Hui Zhenqiao, Zhang Hanyu, <i>et al.</i> (2316)
Hypergraph-augmented GCN meets SVD-enhanced graph contrastive learning for recommendation	Wang Hui, Liu Junyan, You Junjie, <i>et al.</i> (2325)
Dynamic graph embedding learning with multi-dimensional co-interaction signals for recommendation model	 Sun Qian, Xie Qing, Wang Yuhan, <i>et al.</i> (2333)
Enhanced deep operator network for seismic source localization	Pang Shanchen, Wang Chenyu (2340)
Semantic-enhanced adversarial RL for multi-hop reasoning over knowledge graphs	Zhai Sheping, Liu Xue, Huang Zhao, <i>et al.</i> (2348)
SDFC; hierarchical graph summarization model based on topological structures	Zhao Danfeng, Shen Dong, Ma Jian, <i>et al.</i> (2356)
Graph denoising and adding model with graph contrastive learning for social recommendation	Song Xiujie, Ma Tao, Chen Qiaoyu, <i>et al.</i> (2364)
Social-awareness driven spatiotemporal correlation deep decoupling for joint prediction of trajectory and arrival time	 He Xingyu, Hu Mingming, Yang Guisong (2371)
Deep adaptive inference model for fish schooling motion under threatening environments	Liu Lei, Ma Jing (2381)

Tracking student knowledge progression using structured concept and temporal learning patterns	Qin Zhenkai, Qin Weiqi, Wei Baozhong, <i>et al.</i> (2390)
Low-resource Tibetan-Chinese speech translation method based on multi-stage curriculum learning	Xu Guixian, Yuan Chongrui, Su Zeli, <i>et al.</i> (2398)
Nesterov momentum-guided differential evolution	Guo Yifan, Liu Sheng (2406)
Matrix factorization and dual-neighbor spherical interpolation driven data augmentation	Wen Liuying, Zhang Yao, Min Fan (2414)
Hierarchical multi-objective multi-task optimization algorithm	Li Erchao, Guo Qi, Peng Yu (2422)
Dynamic fusion attention spatial domain recognition for spatial transcriptome data	Liu Wenxin, Xu Yifan, Gao Hua, <i>et al.</i> (2432)

System Development & Application

VPA-HPA coordinated dynamic resource scheduling based on PID control and JS divergence	Xun Yaling, Zhang Zheqi, Su Meihong (2442)
Robust fine-tuning method for CNN via nonlinear rule-generated filters	Fan Linlin, Zhang Junna (2449)

Software Technology Research

Structure-first cross-language code clone detection method	Xiong Junhua, Wei Le (2457)
Cache-aware attribute grouping Transformer for CPU cache performance prediction	Cheng Shunxin, Tang Xiaoyong (2465)

Technology of Network & Communication

Prediction and reconstruction method for imitation of bird flock behavior in unmanned aerial vehicle swarms	Chen Qiyang, He Ming, Han Wei, <i>et al.</i> (2472)
Link prediction algorithm for opportunistic network based on edge information learning	Zhao Kailiang, Zhang Feng, Xu Gang, <i>et al.</i> (2481)
Multi-strategy traffic scheduling algorithm for TSN	Du Juan, Wang Cheng, Shi Wenya, <i>et al.</i> (2488)
Multi-scale hybrid feature transform coding for image semantic communication	Wang Mingjun, Yang Qinheng (2494)

Technology of Information Security

Multimodal misinformation detection based on semantic consistency and image manipulation	Gui Hailong, Liu Dan (2500)
Robust watermarking scheme with high visual quality for diffusion model generated images	He Tao, Zhou Fei, Zhou Yi (2507)
Network intrusion detection method based on multi-scale spatiotemporal feature fusion	Xu Li, Su Na, Pei Houqing, <i>et al.</i> (2515)

Technology of Graphic & Image

Semantic-guided and mutual information-constrained occluded person re-identification	Deng Xiaohui, Lin Guorong, Huang Zhenhua (2522)
TrajMamba: Mamba model with dynamic visual perception for trajectory prediction	Zhang Yudan, Zhou Qinghui, Sun Shunjie (2530)
3D Gaussian-based method for realistic scene reconstruction in autonomous driving	Cao Chunping, Liu Pingsheng (2537)
No-reference hyperspectral image quality assessment with weakly-supervised and bidirectional spatial-spectral Transformer	Hu Bingdong, Wang Tonghan, Jia Huizhen (2544)
LightFusionNet: lightweight W-shaped dual-branch fusion network for high-resolution liver CT segmentation	Gu Qun, Peng Haichao (2551)